A Catalog of

# Taylor-Hobson
# COOKE LENSES

Eastman Kodak Stores Company
133 North Wabash Avenue
Chicago, Illinois

Sole Distributors for the United States

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*All Prices Subject To Change Without Notice*

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## SPEED AND ACCURACY

Necessary requisites in making photographs for newspapers and other publications. Accuracy of detail at high speed is obtainable when you use

SERIES O *f*:2 OPIC LENSES

# Foreword

TO MASTER photographers, everywhere, the name and fame of Taylor-Hobson Cooke Lenses are well known.

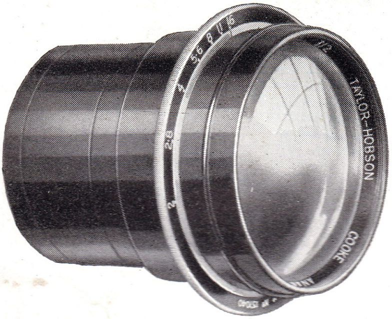
Their series of lenses, as shown in this catalog, includes special lenses for every branch of photography. In the portrait group, three series are offered; the commercial group includes lenses that will meet almost any contingency; and in the photo-engraving group will be found the new Apochromatic series, in addition to the standard Cooke Process Lenses.

Only the best quality optical glass is used in making Cooke lenses and only the highest grade optical workmen find place in the Taylor-Hobson workrooms which is a main reason why Taylor-Hobson Cooke Lenses give such complete satisfaction.

The Photographers of America have adopted the slogans—"Photographs Tell the Story." and "Photographs Live Forever."—the accuracy of the story will depend to a great extent on the accuracy of the lens used and the photograph will live a longer life when made with a Cooke Lens.

## SERIES O *f*:2 OPIC

COMBINED with the extreme aperture of *f*:2., Opic lenses offer a fully corrected anastigmatic field of the same angle as that of the leading *f*:4.5 anastigmats.



In addition to their speed and covering power, this series offers fine color corrections, adapting them well for instantaneous exposures in direct color photography.

They can be used for night photography, for stage pictures with ordinary stage lightings, and for all work where the maximum of speed and covering power are essential.

More than *five times* the speed of f:4.5 lenses. Such speed opens a new and fascinating field for the amateur—in the realm of ordinary artificial light, in the home or in any place he may wish to work.

| Approximate Equivalent Focus | Plate Covered at Full Aperture | Diameter of Circle of Illumination | Flange-screw | | PRICE | |
|---|---|---|---|---|---|---|
| Inches | Inches | Inches | Standard Mount | Sunk Focusing Mount | Standard or Sunk Mount | Sunk Focusing Mount |
| 1⅜ | Kine. | 1.9 | 1¼ | .......... | $ 96.50 | $111.00 |
| 2 | 1⅛x1⅝ | 2.8 | 1¼ | .......... | 104.00 | 118.50 |
| 3 | 1¾x2½ | 4.2 | 1¾ | 2¼ | 126.00 | 141.00 |
| 4¼ | 2½x3½ | 6.0 | 2¼ | 2½ | 185.00 | ......... |
| 5½ | 3¼x4¼ | 7.3 | 2¾ | 3 | 281.50 | 303.50 |

SPEEDIC lenses will prove of great value to speed specialists and others doing abnormally difficult work. Negatives made with them are uniformly bright, sharply covered, and they invite enlargement without loss of detail.

TAYLOR - HOBSON
COOKE
f/2.5
2.5 2.8 4 5.6 8 11 16

Newspaper men and others who work in all sorts of weather, will find the Speedic dependable and fast enough for every occasion. Working at *f*:2.5, they are twice as fast as lenses working at *f*:3.5, and more than three times as fast as *f*:4.5 lenses.

Speedic lenses can be used on hand cameras and cameras of the reflecting type. The 9½ inch lens can also be used on View and Portrait cameras fitted with focal plane shutters. Their speed is sufficient for working in ordinary studio light.

The quality of the pictures taken with these lenses is a happy surprise to every user. Good exposures can be made under conditions before thought impossible.

| Approximate Equivalent Focus | Plate Covered at Full Aperture | Standard Flange-Screw | PRICE |
|---|---|---|---|
| Inches | Inches | Inches | |
| 5¼ | 2¼x3¼ | 2½ | $129.50 |
| 6⅜ | 3¼x4¼ | 3 | 155.50 |
| 7¾ | 4 x5 | 3½ | 185.00 |
| 9¼ | 4¾x6½ | 4 | 259.00 |

IN DESIGN and mounting, the Pressic series offers an extremely light lens suitable for use on cameras equipped with high speed shutters.

f/3.5
TAYLOR-HOBSON
COOKE
3.5
4
5.6
8
11
16

The optical design gives a beautifully flat field, and exceptional freedom from distortion and astigmatism, combined with perfect color corrections.

This series of f:3.5 lenses was designed and mounted specially for use on the reflecting type of cameras. Their glasses are thin and they are mounted in the lightest possible metal, and finished in very fine style.

The great speed of these lenses when used at full aperture f:3.5, enables the user to make exposures in practically half the time required for f:4.5 lenses.

This speed is particularly valuable when taking pictures in shadow, late in the day, on dim porches or in dim interiors.

| Approximate Equivalent Focus | Plate Covered at Full Aperture | Diameter of Circle of Illumination (Approx.) | R. P. S. Standard Flange-screw in inches | | PRICE |
|---|---|---|---|---|---|
| Inches | Inches | Inches | Standard Mount | Sunk Mount | Standard or Sunk Mount |
| 5 | 2½x3½ | 6 | 1¾ | 2¼ | $ 80.00 |
| 6¼ | 3¼x4¼ | 7½ | 2¼ | 2½ | 94.50 |
| 7½ | 3¼x5½ | 9 | 2½ | 2¾ | 113.00 |

FAST enough for the average photographic sitting, yet bestowing that quality of definition so necessary for giving life and snappiness to the picture.

4.5
5.6
8
11
16
22
32
4.5 TAYLOR-HOBSON COOKE AVIAR ANASTIG

Negatives made with Aviar lenses have a snap and brilliance which cannot be equalled with any other lens, a quality which will be best appreciated when enlargements are to be made.

Thruout the range of their own plate, the definition is sharper than that of any other lens of equal aperture. They are not, however, intended for use on larger plates than the regularly listed size.

Aviar Lenses can be used for aerial photography and on ordinary hand cameras. The two larger sizes are excellent for both portrait and view work.

| Approximate Equivalent Focus | Plate Covered at Full Aperture | R. P. S. Standard Flange-screw in inches | | PRICE | | |
|---|---|---|---|---|---|---|
| Inches | Inches | Standard Mount | Sunk Mount | Standard or Sunk Mount | Sunk Focusing Mount | In Cells for Shutters |
| 3¾ | 2¼x3¼ | 1¼ | ... | $ 44.50 | ..... | $35.50 |
| 4¼ | 2½x3½ | 1¼ | ... | 46.50 | ..... | 37.00 |
| 5¼ | 3¼x4¼ | 1½ | 1¾ | 53.50 | $64.50 | 44.00 |
| 6 | 4x5 | 1¾ | 2 | 61.00 | 72.50 | 52.00 |
| 7 | 4x6 | 1¾ | 2¼ | 76.00 | 91.00 | 65.00 |
| 8¼ | 4¾x6½ | 2¼ | ... | 104.00 | ..... | 92.50 |
| 10 | 5x7 | ... | ... | 126.00 | ..... | ..... |
| 12½ | 7x9 | 3½ | ... | 207.50 | ..... | ..... |
| 13½ | 8x10 | 3½ | ... | 222.00 | ..... | ..... |

SERIES VIIIb f:3.5 ELTIC
SERIES VIII f:5.6 TELIC

TWO TELEPHOTO anastigmats, the Eltic *f*:3.5, and the Telic *f*:5.6, that are compact high speed lenses of long focus requiring only a short bellows extension.

They give large images of far distant objects and can be used for both time and instantaneous exposures of scenes which ordinary lenses would render too small.

TAYLOR - HOBSON
COOKE

The photographer who wishes unobserved to obtain views, such as portraits of celebrities, etc., can stand far away and secure an image of the same size as with a normal lens used close at hand. At twice the distance this image will be the same in size as with the ordinary lens, and at the same distance twice the size.

Both the Eltic and Telic series can be used to good advantage on hand and view cameras.

| Series | Approximate Equivalent Focus | Plate Covered at Full Aperture | Camera Extension at Infinity (Approx.) | R. P. S. Standard Flange-screw | PRICE |
|---|---|---|---|---|---|
| | Inches | Inches | Inches | Inches | |
| *f*:3.5 Eltic | 8 | 2½x3½ | 4⅞ | 2½ | $229.50 |
| | 10½ | 3¼x4¼ | 6¼ | 2¾ | 296.00 |
| *f*:5.6 Telic | 8½ | 2½x3½ | 5¼ | 1½ | 81.50 |
| | 11 | 3¼x4¼ | 6¾ | 1¾ | 96.50 |
| | 12½ | 4x5 | 7¼ | 1¾ | 107.50 |
| | 15 | 5x7 | 9 | 2¼ | 148.00 |
| | 20 | 6½x8½ | 12¼ | 2¾ | 296.00 |

FOR WIDE angle work of all kinds, the Anglic *f*:6.5 easily leads all other lenses. The field of illumination is perfectly flat and zonal defects are eliminated.

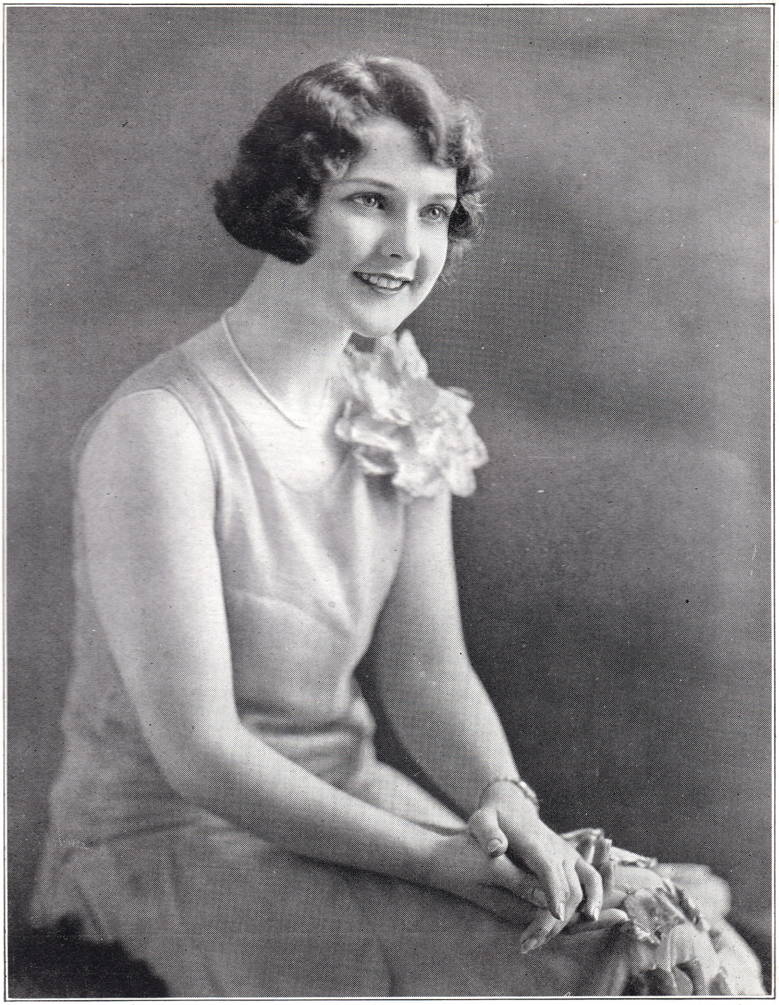
For all work demanding good definition, accurately focused thruout a wide angle of view, Anglic lenses are supreme.

45 32 22 16 11
VIIB. f/6·5
TAYLOR - HOBSON
WIDE ANGLE ANGLIC

Focusing may be accomplished easily and it should be done near the center of the plate. The largest aperture engraved on the iris scale is *f*:11 but, for exceedingly fine definition, exposures should be made at *f*:16 if the light permits.

At *f*:16 sharp definition is given thruout a field of 90° and at *f*:32 thruout 100°. This exceptionally wide angle permits the use of a considerable rise of the camera front. The Anglic lenses are for use on View Cameras.

| Approximate Equivalent Focus | Plate Covered at *f*:16 | R. P. S. Standard Flange-screw | PRICE |
|---|---|---|---|
| Inches | Inches | Inches | |
| 2½ | 3¼x4¼ | 1¼ | $59.00 |
| 3¼ | 3¼x5½ | 1¼ | 59.50 |
| 4¼ | 5x7 | 1¼ | 60.00 |
| 5¼ | 6½x8½ | 1¼ | 63.00 |
| 6¼ | 8x10 | 1½ | 70.50 |
| 8 | 10x12 | 1¾ | 85.00 |
| 8¾ | 11x14 | 1¾ | 85.00 |



Portrait made with a 15-inch

SERIES IIa *f*:3.5 PORTRIC LENS

# Cooke PORTRAIT Lenses

*for the*

Studio and Home Portrait Photographer

PHOTOGRAPHERS long since discovered that any one single lens was not entirely capable of caring for every sort of studio or home sitting—and their call for a series of lenses that would take care of their varied requirements has been answered by Taylor-Hobson with three series of Cooke lenses that meet exactly the photographers' needs.

The fastest of the series, the Portric, working at *f*:3.5, is an ideal lens for use in making negatives of children and for all subjects that must be taken quickly.

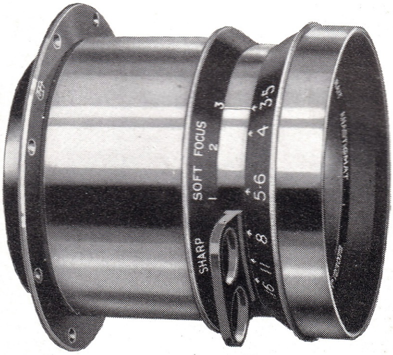
Next in speed is the Portrellic, *f*:4.5, probably the best known portrait lens in the world. So matchless are its characteristics that it has often been referred to as the "universal" lens.

And lastly, the Portronic, *f*:5.6, the finest lens for making group negatives or other negatives where great depth of focus is required.

Consider these qualities—put the lenses to actual test in your own studio—and we venture to say you will soon become a Cooke enthusiast of the first order.

SPEED combined with perfect definition is offered in this, the fastest of the three series of Cooke Portrait lenses.

Working at the extreme speed of *f*:3.5—the Portric is just right for child photography and invaluable in making negatives of restless subjects in weak light.



The Portric series are anastigmats giving a flat field, critical definition and matchless illumination.

Beautifully constructed and finished, they are supplied with iris diaphragm and a diffusing device giving three degrees of diffusion.

The various degrees of diffusion desired can be obtained quickly by rotating a stop device which clicks off the degrees as reached.

The portrait should always be re-focused after diffusion to insure obtaining the exact effect desired.

| Approximate Equivalent Focus | Plate Covered for Studio Portraiture | Plate Covered at Full Aperture at Infinity | R. P. S. Standard Flange-screw | PRICE |
|---|---|---|---|---|
| Inches | Inches | Inches | Inches | |
| 9½ | 5 x7 | 4¾x6½ | 3½ | $177.50 |
| 10½ | 6½x8½ | 5x7 | 3½ | 207.50 |
| 12½ | 8 x10 | 6½x8½ | 4½ | 266.50 |
| 15 | 10 x12 | 8 x10 | 5 | 385.00 |

THE Portrellic, *f*:4.5, is the most popular lens offered, so much so, that many photographers refer to it as the "universal" lens.

It is furnished with iris diaphragm and the regular type has a diffusing device, the same as the other lenses in the Portrait series. A new Home Portrait Type is also available.

Made in England
SOFT FOCUS
1
2
3
SHARP
16
11
8
5.6
4.5

This new Home Portrait type, now offered for the first time, is furnished without diffusing device in a light and compact mount which brings the size down to the minimum—thus enabling Home Portrait Workers to use the Portrellic on View and Home Portrait cameras.

## Series IIb—With Diffusing Device

| Approximate Equivalent Focus | Plate Covered for Studio Portraiture | Plate Covered at Full Aperture at Infinity | R. P. S. Standard Flange-screw | PRICE |
|---|---|---|---|---|
| Inches | Inches | Inches | Inches | |
| 10½ | 6½x8½ | 5x8 | 2¾ | $133.50 |
| 12¾ | 8 x10 | 7x9 | 3½ | 185.00 |
| 15 | 10 x12 | 8x10 | 4½ | 244.50 |
| 18 | 11 x14 | 10x12 | 5 | 414.50 |

## Series IIc—Home Portrait Type

| Approximate Equivalent Focus | Plate Covered for Studio Portraiture | Plate Covered at Full Aperture at Infinity | R. P. S. Standard Flange-screw | PRICE |
|---|---|---|---|---|
| Inches | Inches | Inches | Inches | |
| 10½ | 6½x8½ | 5x8 | 2¾ | $133.50 |
| 12¾ | 8 x10 | 7x9 | 3½ | 185.00 |
| 15 | 10 x12 | 8x10 | 4 | 244.50 |

TO COMPLETE the assortment of lenses required in portraiture, the Portronic lens, working at *f*:5.6, is offered.

This lens is uniform in style and mounting with the Portric and the Portrellic lenses, being equipped with iris diaphragm and the convenient diffusing device.

SHARP
SOFT FOCUS
1
2
3
5.6
8
11
16
22
PORTRAIT
ANASTIGMAT
f:5.6

The Portronic is the supreme lens for groups and all pictures where great depth of focus is required. Lower in price than its speedier fellows, for the same focal lengths, it does its work in a most satisfactory and creditable manner.

It is adapted for use on any model Portrait or View camera.

Microscopically fine definition is possible with all lenses in the Portrait group. Yet, when required, any degree of diffusion can be distributed evenly over the plate.

| Approximate Equivalent Focus | Plate Covered for Studio Portraiture | Plate Covered at Full Aperture at Infinity | R. P. S. Standard Flange-screw | PRICE |
|---|---|---|---|---|
| Inches | Inches | Inches | Inches | |
| 13 | 8x10 | 7x 9 | 2¾ | $133.50 |
| 15½ | 10x12 | 8x10 | 3½ | 185.00 |
| 18 | 11x14 | 10x12 | 4½ | 259.00 |

# COOKE PROCESS LENSES

*for the*

Commercial Photographer and Photo-Engraver

Made with an

Apochromatic Series IX *f*:16 Process Lens

To meet the exacting requirements of the Photo-Engraver specializing in three-color and similar work the series IX, Apochromatic Process Lens has been designed.

Thru the introduction of new optical glasses and a modification of the normal Cooke lens formula, it has been found possible to produce a combination which is guaranteed to answer the most exacting color tests.

·64
·45
·32
·22
·16
·10
Made in England
16 INCH SERIES IX
TAYLOR-HOBSON COOKE APOCHROMATIC PROCESS

The Apochromatic lenses are provided with a removable lens-hood which can be covered with a cap. The screw thread which receives this hood will receive also any prism fitted with a standard screw.

An iris diaphragm is provided and in front of it is a slot to receive process diaphragms if necessary. This slot may be closed or opened by revolving the inscription tube.

Series IX lenses are for use on Engravers' cameras, also View, Commercial and Copying cameras.

| Approximate Equivalent Focus | Full Aperture | Plate Covered at Full Aperture | | PRICE |
|---|---|---|---|---|
| | | Object and Image same size | Image half size of object | |
| Inches | | Inches | Inches | |
| 13 | *f*: 10 | 9 x 13 | 8 x 10 | $166.50 |
| 16 | | 12 x 15 | 10 x 14 | 192.50 |
| 18 | | 13 x 18 | 12 x 15 | 222.00 |
| 21 | | 16 x 20 | 14 x 18 | 281.50 |
| 25 | | 18 x 25 | 16 x 20 | 355.50 |
| 30 | f: 16 | 20 x 30 | 20 x 24 | 481.00 |
| 36 | | 24 x 36 | 24 x 30 | 629.00 |
| 42* | | 30 x 40 | 30 x 36 | 777.00 |
| 48* | | 36 x 48 | 30 x 40 | 925.00 |

*Made to order only

COOKE PROCESS LENSES, Series Vb, are so well and so favorably known that their reputation as the best for halftone and line work is firmly established.

They help, consistently, in the obtaining of prints with that "selling value" which is so necessary in prints made for use in advertising and publicity campaigns.

64
45
32
22
16
10
18 INCH SERIES V b
COOKE PROCESS ANASTIGMAT
No 25199
Made in England
TAYLOR-HOBSON

Like the Apochromatic Series, they are fitted with a removable lens-hood. The screw thread which receives this hood will receive also any prism fitted with a standard screw.

Instead of the old fashioned stops with circular openings, these lenses now have an iris diaphragm with a slot in front to receive process diaphragms when necessary.

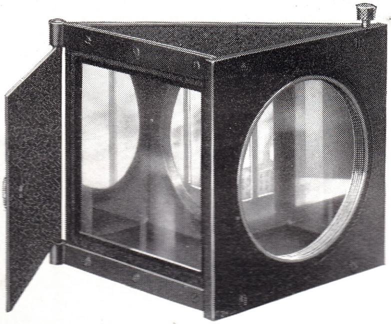
Series Vb lenses are for use on Engravers' cameras, also View, Commercial and Copying cameras.

| Approximate Equivalent Focus | Full Aperture | Plate Covered at Full Aperture | | PRICE |
|---|---|---|---|---|
| | | Object and image same size | Image half size of object | |
| Inches | | Inches | Inches | |
| 9 | *f*:8. | 7x 9 | 6x 7½ | $ 74.00 |
| 11 | | 8x10 | 7x9 | 81.50 |
| 13 | | 9x13 | 8x10 | 104.00 |
| 16 | *f*:10. | 12x15 | 10x14 | 133.50 |
| 18 | | 13x18 | 12x15 | 163.00 |
| 21 | | 16x20 | 14x18 | 192.50 |
| 25 | | 18x25 | 16x20 | 259.00 |
| 30 | *f*:16. | 20x30 | 20x24 | 333.00 |
| 36 | | 24x36 | 24x30 | 481.00 |
| 42* | | 30x40 | 30x36 | 629.00 |
| 48* | | 36x48 | 30x40 | 777.00 |

*Made to order only

# PROCESS PRISMS

The high standard of excellence reached in Cooke Process Lenses is maintained fully in Cooke Process Prisms. The accuracy of each surface is guaranteed and the convenience of the mountings unique.



The prism-box is fitted with a rotating flange which screws into the front of the lens after the hood has been removed. A small lock attached to this flange, clamps the prism at any angle.

The outside surface of the prism is fully protected by a convenient exposure flap.

| Size in Inches | To Suit Lenses (Focus in inches) | PRICE |
|---|---|---|
| 2½ | 9, 11 and 13-inch Vb—13 and 16-inch IX | $140.00 |
| 2¾ | 16-inch Vb—18-inch IX | 144.50 |
| 3 | 18-inch Vb | 149.50 |
| 3¼ | 21-inch Vb—21 and 25 inch IX | 168.00 |
| 3½ | 25-inch Vb | 186.50 |
| 4 | 30-inch IX | 298.50 |
| 4½ | 30 and 36-inch Vb—36-inch IX | 364.00 |
| 5½ | 42 and 48-inch Vb—42 and 48-inch IX | 727.50 |

## LENS CAPS

Covered with leather and lined with velvet these caps protect your lens from dust and dirt scratches.

### Prices

| | |
|---|---|
| Caps, 1¼″ to 1⅞″, inside diameter | $1.25 each |
| Caps, 2″ to 2⅜″, inside diameter | 1.75 each |
| Caps, 2½″ to 3⅜″, inside diameter | 2.50 each |
| Caps, 3½″ to 4¼″, inside diameter | 3.50 each |
| Caps, 5″ and 6″, inside diameter | 4.00 each |

# STANDARD FLANGES AND ADAPTERS

ALL SCREW threads on Taylor-Hobson Flanges and Adapters are formed within one or two-thousandths of an inch from the normal sizes; thus, they are freely interchangeable.

A Flange of this style is included with every Taylor-Hobson Cooke Anastigmat lens not mounted in a between-lens shutter.

| Diam. of Screw (inches). . | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ |
|---|---|---|---|---|---|---|---|
| Full Diam. of Flange. . . . . | 1.8 | 2.1 | 2.4 | 2.7 | 3.0 | 3.3 | 3.6 |
| List Price. . . . . . . . . . . . . . | $2.00 | $2.25 | $2.50 | $2.75 | $2.75 | $3.00 | $3.25 |

| Diam. of Screw (inches). . | 3 | 3½ | 4 | 4½ | 5 | 6 | |
|---|---|---|---|---|---|---|---|
| Full Diam. of Flange. . . . . | 3.9 | 4.6 | 5.55 | 6.0 | 6.5 | 7.85 | |
| List Price. . . . . . . . . . . . . . | $3.50 | $3.75 | $4.25 | $4.75 | $5.25 | $6.25 | . . . . . . |

## NOTE

Cooke Lenses may be seen and examined at the best stores thruout the United States and most dealers allow a liberal time for trial.

Should you experience difficulty in learning all you wish to know about any of these lenses, information will gladly be sent direct by the distributors.

## WARNING

Cooke Anastigmat Lenses can be fitted by the makers to most shutters now on the market. It should, however, be noted that any interference with their mounting, except by the makers, should never be permitted.

## PRICES

All prices shown in this catalog are subject to change without notice.

# RECAPITULATION

Showing the adaptability of Taylor-Hobson Cooke Lenses to every branch of photography

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| | II —Aviar | *f*:4.5 | 7 |
| | VIIIb—Eltic | *f*:3.5 | 8 |
| | VIII —Telic | *f*:5.6 | 8 |
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| | IIa —Portric | *f*:3.5 | 12 |
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| | VI —Portronic | *f*:5.6 | 14 |
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| | VIIb —Anglic | *f*:6.5 | 9 |
| | IIb —Portrellic | *f*:4.5 | 13 |
| | VI —Portronic | *f*:5.6 | 14 |
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| | IIb —Portrellic | *f*:4.5 | 13 |
| | VI —Portronic | *f*:5.6 | 14 |
| | IX —Apochromatic | *f*:10. | 16 |
| | Vb —Process | *f*:8. | 17 |
| Photo-Engraving and Copying | IX —Apochromatic | *f*:10. | 16 |
| | Vb —Process | *f*:8. | 17 |
| | —Prisms | | 18 |
| Direct Color Photography | O —Opic | *f*:2. | 4 |
| | X —Speedic | *f*:2.5 | 5 |
| | IIa —Pressic | *f*:3.5 | 6 |
| | II —Aviar | *f*:4.5 | 7 |
| | VIIIb—Eltic | *f*:3.5 | 8 |
| | VIII —Telic | *f*:5.6 | 8 |
| For Enlarging | II —Aviar | *f*:4.5 | 7 |
| | VI —Portronic | *f*:5.6 | 14 |
| | IX —Apochromatic | *f*:10. | 16 |
| | Vb —Process | *f*:8. | 17 |

# Taylor-Hobson
# COOKE LENSES

## For Every Branch of Photography

*Catalog B*

*For Sale By*

**EASTMAN KODAK STORES, INC.**
**808 Locust Street**
**Des Moines, Iowa**